LEGEND

- ■ PROPOSED DROP INLET
- PROPOSED STORM DRAIN LINE (CPP)
- PROPOSED LIMIT OF PERMANENT PERMEABLE COVER
- PROPOSED LIMIT OF LOW PERMEABILITY CAP
- PROPOSED CAP SYSTEM UNDERDRAIN
- —590.0— PROPOSED GENERAL FILL SURFACE GRADE OR SUBGRADE
- EXISTING FENCE
- EXISTING GAS PIPELINE
- ⊙ GW-2 PROPOSED GROUNDWATER MONITORING WELL
- ▨▨ PROPOSED RIVERBANK ARMORING RIPRAP

GRAPHIC SCALE

1 INCH = 60 FEET

MAPPING REFERENCE:
BASE MAPPING SHOWN ON THIS DRAWING WAS PREPARED BY PHOTOSCIENCE, INC. BASED ON AERIAL PHOTOGRAPHY DATED SEPTEMBER 24, 2003.

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DESIGN
CAD File No.
RSB Drawn
DMK Checked
Approved
AS NOTED Scale:
Date:
01-0081-700C Project No.

SOLUTIA, INC.
ST. LOUIS, MISSOURI

GENERAL FILL SURFACE AND SITE PLAN
RCRA INTERIM MEASURES
CAPS AND COVERS CONTRACT

PRELIMINARY – FOR REGULATORY REVIEW

Drawing No. 2

PERMANENT PERMEABLE
COVER – 47.63 ACRES

LOW PERMEABILITY
CAP – 7.73 ACRES

LOW PERMEABILITY
COVER – 7.97 ACRES

KANAWHA RIVER

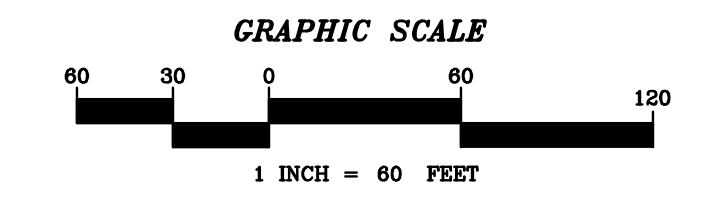SEE DRAWING NO.3
MATCHLINE

NOTES:

1. PROPOSED CONTOURS SHOWN ON THIS DRAWING REPRESENT THE TOP OF THE GENERAL SOIL FILL LAYER (UNLESS INDICATED OTHERWISE). THE TOP OF THE GENERAL SOIL FILL LAYER REPRESENTS THE PROPOSED SUBGRADE FOR INSTALLING THE LOW PERMEABILITY CAP AND LOW PERMEABILITY COVER GEOSYNTHETIC LAYERS. THE GENERAL SOIL FILL LAYER IN LOW PERMEABILITY CAP AND LOW PERMEABILITY COVER AREAS SHALL BE BROUGHT TO GRADE BY CUTTING AND FILLING AS SHOWN. FILL REQUIRED TO OBTAIN THESE ELEVATIONS SHALL BE OBTAINED FROM EXCAVATIONS MADE FOR RIVERBANK ARMORING, STORM WATER PIPING AND OUTLETS, DRAINAGE SWALES AND CHANNELS, AND OTHER EXCAVATIONS REQUIRED ON THE SITE. THE CONTRACTOR SHALL COMPLETE EXCAVATIONS INDICATED ON THE DRAWINGS AND EXCAVATED MATERIALS FROM THE SITE SHALL BE PLACED WITHIN THE GENERAL SOIL FILL LAYER WITHIN THE LOW PERMEABILITY CAP AREAS. IF INSUFFICIENT VOLUME EXISTS TO ACCOMMODATE EXCAVATED MATERIALS FROM THE NITRO PROPERTY WITHIN THE CAP AREAS, EXCAVATED MATERIALS FROM THE NITRO PROPERTY SHALL BE PLACED WITHIN THE GENERAL SOIL FILL LAYER WITHIN THE LOW PERMEABILITY COVER AREA. AFTER EXCAVATION AND FILL ARE COMPLETED IN THE LOW PERMEABILITY CAP AND LOW PERMEABILITY COVER AREAS, THE CONTRACTOR CAN COMPLETE WORK IN THE AREAS TO RECEIVE THE PERMANENT PERMEABLE COVER. IN AREAS REQUIRING EXCAVATION, EXCAVATION SHALL BE COMPLETED PRIOR TO PLACING THE GEOTEXTILE SEPARATION LAYER ON THE PREPARED SUBGRADE. WHERE FILL IS REQUIRED (GENERAL SOIL FILL), THE GEOTEXTILE SEPARATION LAYER SHALL BE PLACED ON THE PREPARED EXISTING GROUND SURFACE PRIOR TO PLACING CLEAN SOIL FROM THE OFF-SITE SOIL BORROW SOURCE.

2. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, SUPER SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, AND SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO COMMENCING EARTHWORK.

3. REFER TO THE TECHNICAL SPECIFICATIONS FOR THE SUGGESTED CONSTRUCTION SEQUENCE AND FOR ADDITIONAL REQUIREMENTS FOR THE CAPS AND COVERS INSTALLATION WORK.

4. BASE TOPOGRAPHIC MAPPING SHOWN ON THIS DRAWING WAS GENERATED FROM AERIAL PHOTOGRAPHY DATED SEPTEMBER 24, 2003. AFTER COMPLETION OF THE TOPOGRAPHIC MAPPING, ACTIVITIES WERE COMPLETED AT THE SITE THAT LIKELY HAVE IMPACTED GROUND ELEVATIONS AND STRUCTURES SHOWN ON THE MAPPING. THESE ACTIVITIES INCLUDED:

   a. DEMOLITION OF ABOVE GRADE STRUCTURES FROM THE FLEXSYS AMERICA, L.P. MANUFACTURING PLANT. THIS INCLUDED BUILDINGS, WALLS, UTILITIES AND ALL OTHER ABOVEGROUND ITEMS. FOUNDATIONS, FLOOR SLABS, AND BURIED UTILITIES WERE NOT REMOVED. THE BASE TOPOGRAPHIC MAPPING WAS FIELD EDITED AT THE LOCATIONS OF THE SIGNIFICANT BUILDINGS TO CORRECT EXISTING FLOOR SLAB ELEVATIONS.

   b. CRUSHED STONE SURFACING WAS ADDED IN SELECT AREAS TO PROMOTE A STABILIZED SURFACE AND LESSEN ADVERSE IMPACTS FROM SITE RUNOFF.

   c. SLURRY WALLS WERE CONSTRUCTED IN THE AREAS OF THE PROPOSED LOW PERMEABILITY CAPS. CONSTRUCTION OF THE SLURRY WALLS HAS RESULTED IN CHANGED CONDITIONS AT THE NITRO PROPERTY. CHANGES INCLUDE:

      i. A SOIL BENTONITE SLURRY WALL WAS INSTALLED FROM THE EXISTING GROUND SURFACE (AND/OR PREPARED WORK PLATFORM) TO THE TOP OF BEDROCK (DEPTHS RANGING FROM APPROXIMATELY 50 FEET TO 60 FEET).

      ii. THE GROUND ELEVATIONS ALONG THE ALIGNMENT OF THE SLURRY WALL HAVE BEEN ALTERED SOMEWHAT FROM THE ELEVATIONS INDICATED BY THE BASE TOPOGRAPHIC MAPPING FROM INSTALLATION OF THE WORK PLATFORM, GENERATION AND PLACEMENT OF EXCESS MATERIALS EXCAVATED DURING UTILITY AND OBSTRUCTION CLEARING, AND EXCESS SOIL/BENTONITE MATERIALS FROM SLURRY WALL CONSTRUCTION.

      iii. OTHER MINOR DISTURBANCE TO AREAS ON THE NITRO PROPERTY MAY HAVE OCCURRED IN CONTRACTOR-SUPPORT AREAS ASSOCIATED WITH SLURRY WALL INSTALLATION.

5. EXISTING FENCES ALONG THE PERIMETER OF THE NITRO PROPERTY (SOUTH, EAST, AND NORTH LINES) SHALL REMAIN IN PLACE DURING CAPS AND COVERS CONSTRUCTION ACTIVITIES. THE EXISTING FENCE ALONG THE TOP OF THE RIVERBANK IN THE FORMER MANUFACTURING AREA SHALL BE REMOVED AND DISPOSED ON-SITE UNDER THE LOW PERMEABILITY CAP AND LOW PERMEABILITY COVER.

6. GAS PIPELINES OWNED BY TEA VEE OIL & GAS CROSS THE NITRO PROPERTY AND WILL REQUIRE RELOCATION AS PART OF THE CAPS AND COVERS CONSTRUCTION.

7. REFER TO RIVERBANK CROSS SECTIONS FOR REQUIRED EXCAVATION AND DIMENSIONS OF RIVERBANK ARMORING RIPRAP AND GEOTEXTILE. THIS PLAN IS NOT INTENDED TO SHOW RIVERBANK GRADING AND ARMORING WORK.